

# Aircel

## Condensate Management

### Oil/Water Separators & Drain Valves



# Aircel Condensate Management Drains & Oil Water Separators

Since 1994, Aircel has been delivering quality, industry leading compressed air dryers and accessories for production lines and facilities all over the world.

Our precise engineering and designs provide reliable products that will protect your operations for years to come.

Based in Maryville, Tennessee, Aircel is a multi-industry manufacturing leader. Aircel's highly-specialized, engineered products and technologies are powering facilities all over the world. Our products serve industries such as textile, food and beverage, automotive, production, PET market, breathing air, pneumatic instrumentation, and more.



Drains and oil/water separators are an often overlooked part of the compressed air system, but they are an incredibly important component. Lubricant, metals, particles, rust, and pipe scale are all separated and filtered out through filtration and dryer separation, but the drains must operate properly for the task to be successful.

Drains are found on every aspect of a compressed air system - aftercoolers, filters, dryers, receivers, and more - so choosing the right drain is an important step in the process.

Aircel's engineering team constantly researches the industry developments in order to bring the best condensate management products to our customers. Based on this information, we are able to develop our drain and oil/water separator offerings to meet the performance you have come to expect from Aircel.



## Timer Controlled, Electronic Drain | ATD Series

The ATD Series timer controlled condensate drain is an economical drain suitable for a wide range of compressed air applications including compressors, receivers, filters, and refrigerated air dryers. With an easily adjustable electronic timer, a direct acting solenoid valve, and a large discharge orifice, this drain is the most cost effective option for reliable condensate removal.

The ATD Series is easy to install, simple to adjust and rated for pressures up to 230 psig. With a test switch, LED on/off indication, and a fully serviceable valve, the ATD Series offers a long list of features and benefits not typically found at this price point. This is the ultimate in low cost, high performance condensate management.



### Connections

Model Number	Catalog Number	Voltage	Max Pressure (PSIG)	Inlet (NPT)	Outlet (NPT)	Weight (lbs)
ATD-10	AG3020601	115-1-60	230	1/4"	1/4"	2
ATD-20	AG3020701			1/2"	3/8"	4

## Zero Loss, Pneumatic Drain | APD Series

The APD Series drain removes condensate from compressed air systems without the use of electricity.

Discharge process is automatic and is based on a 2/2 way level controlled valve that operates on a direct cylinder valve. The APD Series drain is ideally suited in applications where power is not available, too expensive, or not reliable. Integrated stainless steel strainer protects the valve, optimizing the discharge performance.

Condensate level can be viewed through the site port, offering visual monitoring.



### Connections

Model Number	Catalog Number	Max. Compressor Capacity (scfm)	Max Pressure (PSIG)	Inlet (NPT)	Outlet (NPT)	Weight (lbs)	Temperature Range
APD	AG3482266	3500	44 / 230 (valve type direct cylinder)	1/2"	1/2"	6.5	34°F - 122°F

## AMF Series | Magnetic Float, Pneumatic Drain

The AMF Drain Series is the optimum choice in compact energy saving condensate drains. Unlike timed or electronic drains which require electricity to operate, the AMF Drain Series operates using a magnetic level sensor providing energy saving, zero air loss operation without the need for a power source.

Perfectly suited for coolers, refrigerated dryers, liquid separators, and especially compressed air filters, the AMF Drain Series uses a 2/2 way level controlled magnetic actuator which opens and closes a direct cylinder valve, discharging the condensate from your compressed air system without losing any compressed air. This drain meets the demands of virtually any application regardless of the condensate flow.



### Connections

Model Number	Catalog Number	Max Pressure (PSIG)	Inlet (NPT)	Outlet (NPT)	Weight (lbs)	Temperature Range
AMF	AG3482259	230	1/2"	1/8"	3	36°F - 120°F

## AZL Series | Zero Loss, Electronic Drain

The AZL Drain Series zero air loss condensate drains provide effective and efficient condensate removal while saving you time and money. With innovative features like remote alarm contacts, a test button, LED indicator lights and an optional heater for cold weather applications, these electronic drains are the optimum choice for reliable, energy saving condensate removal.

A robust 2/2 way capacitive level sensing actuator operates a direct acting valve to discharge condensate without losing any valuable compressed air. An integrated mesh strainer protects the valve from blockage and alarm contacts provide remote, real time indication of drain function.



### Connections

Model Number	Catalog Number	Max. Compressor Capacity (scfm)	Voltage	Max Pressure (PSIG)	Inlet (NPT)	Outlet (NPT)	Valve Orifice	Drainage Capacity	Temperature Range
AZL	AG3939988	3,000	115/60/1	230	1/2"	1/2" - hose barb included	4.5 mm	60 gallons/hour	34°F - 122°F
AZL	AG3482489	3,000	230/1/60	230	1/2"	1/2" - hose barb included	4.5 mm	60 gallons/hour	34°F - 122°F

## Debris and Rust Handler | Drain-All® Series

The Drain-All® Rust Handler Series includes a patented “though-port” design that provides increased capability for handling of solid debris. This provides increased reliability in applications with heavy rust and debris that may clog other traps. This means smooth, trouble free operation and fewer maintenance hassles. It’s fully automatic by working on demand as liquid accumulates in the reservoir. Once installed, no daily maintenance or on-going adjustments are required.

The Drain-All® Rust Handler Series will fit most industrial applications and compressors up to approximately 1,500 HP. It requires no electrical connections and can easily be installed on equipment at any point in an air system.



Model Number	Catalog Number	Dimensions			Connections		Weight (lbs)	Max Temp	Max Pressure
		Height	Width	Depth	Inlet (NPT)	Outlet (NPT)			
RH50-0LAAA	AG3936920	11"	9 1/4"	10 1/2"	1/2"	1/2"	21	170°F	170



Compressor condensate typically contains as much as 5% oil, making it too harmful to the environment to be discharged without purification. Condensate drain valves reliably discharge compressed air condensate from the pressurized system. Oil/water separators process condensate to a residual oil content as low as 10 ppm, allowing the processed water to be discharged into most municipal waste water treatment systems.

The AOWS range of oil/water separators separates oil from condensate, generated by compressed air systems. The AOWS Series achieves efficient separation of oil from condensate by means of directing the condensate through various separation stages.

### Premium Separation Technology

As condensate flows in to the AOWS Series, the oil is filtered out through various filtration elements. The first oil adsorbing element has a clever saturation indicating feature, offering you a visual operating status of the separator at a distance.

The elements are designed to combine various types of adsorption technologies to achieve less than 10 ppm oil residue values at the output stage.

Final separation stage includes specially selected activated charcoal to polish out the remaining contaminants.



### Features & Benefits

- Visual element life indication
- Small footprint
- Lighter and easier replacement of elements
- Sectional draining options during servicing
- Multiple condensate inlets
- Service drains for easy maintenance
- Simple installation and maintenance procedures
- Operates with both timer controlled and zero air loss drain valves
- Separation of mineral and synthetic lubricants, stable condensate emulsions, consult factory for polyglycol applications

## Oil/Water Separator | AOWS Series

Model Number	Synthetic Catalog Number	Polyglycol Catalog Number	Compressor Capacity (scfm)	Connections		Max Oil Adsorption	Adsorption Filter Media Included
				Inlet (NPT)	Outlet (NPT)		
AOWS-70	AG3482230	AG3482231	70	1/2"	1/2"	2 1/2 quarts	1
AOWS-125	AG3482232	AG3482233	125	1/2"	1/2"	3/4 gallon	1
AOWS-350	AG3482237	AG3482238	350	(2) 1/2"	1"	2 1/2 gallon	2
AOWS-750	AG3482244	AG3482245	750	(2) 1/2"	1"	4 gallon	2
AOWS-1250	AG3482251	AG3482252	1250	(2) 1/2"	1"	7 gallon	2
AOWS-3000	AG3482371	AG3482370	3000	(4) 1/4" hose barb	1/4"	14 gallon	2

## Oil/Water Separator Kits | AOWS Series

Model Number	Catalog Number	Type
AOWS-125S	AG3483330	Synthetic Oil, 125 SCFM
AOWS-125P	AG3483331	Polyglycol Oil, 125 SCFM
AOWS-350S	AG3483332	Synthetic Oil, 350 SCFM
AOWS-350P	AG3483333	Polyglycol Oil, 350 SCFM
AOWS-750S	AG3483334	Synthetic Oil, 750 SCFM
AOWS-750P	AG3483335	Polyglycol Oil, 750 SCFM
AOWS-1250S	AG3483336	Synthetic Oil, 1250 SCFM
AOWS-1250P	AG3483337	Polyglycol Oil, 1250 SCFM
AOWS-3000S	AG3483328	Synthetic Oil, 3000 SCFM
AOWS-3000P	AG3483329	Polyglycol Oil, 3000 SCFM



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